

SEQUENCE LISTING

<110> KUROKAWA, Masato
NAKAMURA, Hiroaki

<120> Wound dressing for accelerating epidermal regeneration

<130> 292US

<160> 49

<170> PatentIn version 3.1

<210> 1

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<213> Homo sapiens

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Arg Gly Asp

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<210> 2

<211> 5

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Ile Lys Val Ala Val

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Tyr Ile Gly Ser Arg

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 20 25 30

Gly Ala Gly Ala Gly Ala Gly Ala
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Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala
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 20 25 30

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala
 35 40 45

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala
 50 55 60

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 65 70 75 80

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 85 90 95

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Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala
 130 135 140

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 20 25 30

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
 35 40 45

Gly Ala Gly Ala Gly Ser
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Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
 1 5 10 15

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
 20 25 30

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser

35

40

45

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
 50 55 60

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
 65 70 75 80

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
 85 90 95

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
 100 105 110

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
 115 120 125

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
 130 135 140

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
 145 150 155 160

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
 165 170 175

Gly Ala Gly Ser
 180

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<400> 10

Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr
 1 5 10

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<400> 11

Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala
 1 5 10 15

Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala
 20 25 30

Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr
 35 40 45

Gly Ala Gly Ala Gly Tyr
 50

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<400> 12

Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala
 1 5 10 15

Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala
 20 25 30

Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr
 35 40 45

Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala

50	55	60
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65	70	75 80
Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr		
	85	90 95
Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala		
	100	105 110
Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala		
	115	120 125
Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr		
	130	135 140
Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala		
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Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala		
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Gly Ala Gly Tyr		
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<400> 13

Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr
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<400> 14

Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val
1 5 10 15

Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala
20 25 30

Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr
35 40 45

Gly Ala Gly Val Gly Tyr
50

<210> 15

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<400> 15

Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val
1 5 10 15

Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala
20 25 30

Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr
35 40 45

Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val
50 55 60

Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala
65 70 75 80

Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr
 85 90 95

Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val
 100 105 110

Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala
 115 120 125

Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr
 130 135 140

Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val
 145 150 155 160

Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala
 165 170 175

Gly Val Gly Tyr
 180

<210> 16

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<400> 16

Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val
 1 5 10

<210> 17

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<400> 17

Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr
1 5 10 15

Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala
20 25 30

Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val
35 40 45

Gly Ala Gly Tyr Gly Val
50

<210> 18

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<223> auxiliary amino acid sequence (Y)

<400> 18

Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr
1 5 10 15

Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala
20 25 30

Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val
35 40 45

Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr
50 55 60

Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala
65 70 75 80

Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val
85 90 95

Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr
 100 105 110

Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala
 115 120 125

Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val
 130 135 140

Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr
 145 150 155 160

Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala
 165 170 175

Gly Tyr Gly Val
 180

<210> 19

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<400> 19

Asp Gly Gly Ala Ala Ala Ala Ala Gly Gly Ala Asp Gly Gly Ala
 1 5 10 15

Ala Ala Ala Ala Ala Gly Gly Ala Asp Gly Gly Ala Ala Ala Ala Ala
 20 25 30

Ala Gly Gly Ala Asp Gly Gly Ala Ala Ala Ala Ala Gly Gly Ala
 35 40 45

<210> 20

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Asp Gly Gly Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gly
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Gly Ala

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<400> 21

Asp Gly Gly Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gly
1 5 10 15

Gly Ala Asp Gly Gly Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
20 25 30

Ala Gly Gly Ala Asp Gly Gly Ala Ala Ala Ala Ala Ala Ala Ala Ala
35 40 45

Ala Ala Ala Gly Gly Ala Asp Gly Gly Ala Ala Ala Ala Ala Ala Ala
50 55 60

Ala Ala Ala Ala Ala Gly Gly Ala
65 70

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<400> 22

Gly Val Pro Gly Val Gly Val Pro Gly Val
1 5 10

<210> 23

<211> 50

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<400> 23

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
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Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
20 25 30

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
35 40 45

Gly Val
50

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<211> 200

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<400> 24

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
1 5 10 15

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
20 25 30

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
35 40 45

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
50 55 60

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
65 70 75 80

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
85 90 95

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
100 105 110

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
115 120 125

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
130 135 140

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
145 150 155 160

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
165 170 175

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
180 185 190

Pro Gly Val Gly Val Pro Gly Val
195 200

<210> 25

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<400> 25

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
1 5 10

<210> 26

<211> 40

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<223> auxiliary amino acid sequence (Y)

<400> 26

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
 20 25 30

Gly Gly Gly Gly Gly Gly Gly Gly
35 40

<210> 27

<211> 160

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<400> 27

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
1 5 10 15

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly

20

25

30

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
 35 40 45

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
 50 55 60

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
 65 70 75 80

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
 85 90 95

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
 100 105 110

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
 115 120 125

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
 130 135 140

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
 145 150 155 160

<210> 28

<211> 10

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<400> 28

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
 1 5 10

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<223> auxiliary amino acid sequence (Y)

<400> 29

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
1 5 10 15

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala

Ala Ala Ala Ala Ala Ala Ala Ala
35 40

<210> 30

<211> 160

<212> PRT

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<400> 30

Ala **A**la **A**la **A**la **A**la **A**la **A**la **A**la **A**la **A**la **A**la **A**la **A**la **A**la **A**la **A**la
1 5 10 15

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
35 40 45

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
65 70 75 80

Ala A**b**a A**c**a A**d**a A**e**a A**f**a A**g**a A**h**a A**i**a A**j**a A**k**a A**l**a A**m**a A**n**a A**o**a A**p**a
85 90 95

Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly
20 25 30

Ala Gly Gly Ala
35

<210> 33

<211> 180

<212> PRT

<213> Artificial Sequence

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<223> auxiliary amino acid sequence (Y)

<400> 33

Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly
1 5 10 15

Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly
20 25 30

Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala
35 40 45

Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly
50 55 60

Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly
65 70 75 80

Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala
85 90 95

Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly
100 105 110

Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly
115 120 125

Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala
130 135 140

Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly
145 150 155 160

Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly
 165 170 175

Ala Gly Gly Ala
 180

<210> 34
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<400> 34

Gly Val Gly Val Pro Gly Val Gly Val Pro
 1 5 10

<210> 35
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<220>
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<400> 35

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 1 5 10 15

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
 20 25 30

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
 35 40 45

Val Pro
 50

<210> 36
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<400> 36

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 1 5 10 15

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
 20 25 30

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
 35 40 45

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 50 55 60

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 65 70 75 80

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 85 90 95

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
 100 105 110

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
 115 120 125

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
 130 135 140

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
 145 150 155 160

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
 165 170 175

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
 180 185 190

Gly Val Pro Gly Val Gly Val Pro
 195 200

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<400> 37

Gly Pro Pro Gly Pro Pro Gly Pro Pro
 1 5

<210> 38

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<400> 38

Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly
 1 5 10 15

Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
 20 25 30

Pro Gly Pro Pro
 35

<210> 39

<211> 180

<212> PRT

<213> Artificial Sequence

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<400> 39

Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly
1 5 10 15

Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
20 25 30

Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro
35 40 45

Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly
50 55 60

Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
65 70 75 80

Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro
85 90 95

Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly
100 105 110

Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
115 120 125

Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro
130 135 140

Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly
145 150 155 160

Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
165 170 175

Pro Gly Pro Pro
180

<210> 40
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<400> 40

Gly Ala Gln Gly Pro Ala Gly Pro Gly
 1 5

<210> 41
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<220>
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<400> 41

Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly
 1 5 10 15

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro
 20 25 30

Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly
 35 40 45

<210> 42
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 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 42

Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly
 1 5 10 15

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro
 20 25 30

Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln
 35 40 45

Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly
 50 55 60

Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro
 65 70 75 80

Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala
 85 90 95

Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly
 100 105 110

Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala
 115 120 125

Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly
 130 135 140

Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly
 145 150 155 160

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro
 165 170 175

Ala Gly Pro Gly
 180

<210> 43

<211> 15

<212> PRT

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<220>

<223> auxiliary amino acid sequence (Y)

<400> 43

Gly Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln
 1 5 10 15

<210> 44

<211> 60

<212> PRT

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<220>

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<400> 44

Gly Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly
 1 5 10 15

Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala
 20 25 30

Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro
 35 40 45

Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln
 50 55 60

<210> 45

<211> 180

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 45

Gly Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly
 1 5 10 15

Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala

20

25

30

Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro
 35 40 45

Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly
 50 55 60

Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala
 65 70 75 80

Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro
 85 90 95

Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro Gly
 100 105 110

Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro Gly Ser
 115 120 125

Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro Gly Ser Gln
 130 135 140

Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro Gly Ser Gln Gly
 145 150 155 160

Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala
 165 170 175

Pro Gly Leu Gln
 180

<210> 46

<211> 15

<212> PRT

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<220>

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<400> 46

Gly Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro

1 5 10 15

<210> 47

<211> 60

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 47

Gly Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly
1 5 10 15

Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala
20 25 30

Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro
35 40 45

Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro
50 55 60

<210> 48

<211> 180

<212> PRT

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<223> auxiliary amino acid sequence (Y)

<400> 48

Gly Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly
1 5 10 15

Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala
20 25 30

Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro
35 40 45

Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly
 50 55 60

Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr
 65 70 75 80

Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro
 85 90 95

Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro Gly
 100 105 110

Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro Gly Pro
 115 120 125

Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro Gly Pro Gln
 130 135 140

Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro Gly Pro Gln Gly
 145 150 155 160

Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu
 165 170 175

Pro Gly Ser Pro
 180

<210> 49

<211> 30

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<400> 49

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Gly Gly Ala Gly Ala
 1 5 10 15

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
 20 25 30